

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

November 12, 2015

MARK PEACOCK DUKE ENERGY EDWARDSPORT IGCC 15424 E. STATE ROAD 358 Edwardsport, IN 47528

RE: Project: Gray Water LL Hg Study

Pace Project No.: 50131115

# Dear MARK PEACOCK:

Enclosed are the analytical results for sample(s) received by the laboratory between October 13, 2015 and October 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kenneth Hunt

kenneth.hunt@pacelabs.com

**Project Manager** 

**Enclosures** 

cc: Mr. Rhett Moody, Duke Energy (Edwardsport Generating

Station)





Pace Analytical Services, Inc.
Not NELAP Accredited
4860 Blazer Parkway

Dublin, OH 43017 (614)486-5421 Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

### **CERTIFICATIONS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

**Indiana Certification IDs** 

7726 Moller Road, Indianapolis, IN 46268 Illinois Certification #: 200074 Indiana Certification #: C-49-06 Kansas Certification #:E-10177 Kentucky UST Certification #: 0042 Kentucky WW Certification #:98019 Louisiana Certification #: 04076

Ohio VAP Certification #: CL-0065 Oklahoma Certification #: 2014-148 Texas Certification #: T104704355-15-9 West Virginia Certification #: 330 Wisconsin Certification #: 999788130 USDA Soil Permit #: P330-10-00128

### **REPORT OF LABORATORY ANALYSIS**



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

# **SAMPLE SUMMARY**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50131115001	Gray Water Out (Lab Filtered)	Water	10/13/15 10:45	10/13/15 14:20
50131115002	Gray Water Inf (Lab Filtered)	Water	10/13/15 10:55	10/13/15 14:20
50131115003	Gray Water Out (Lab Filtered)	Water	10/13/15 10:45	10/15/15 14:15
50131115004	Gray Water Inf (Lab Filtered)	Water	10/13/15 10:50	10/15/15 14:15
50131115005	Filtration Blank Control	Water	10/29/15 08:00	10/29/15 08:00

# **REPORT OF LABORATORY ANALYSIS**



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

# **SAMPLE ANALYTE COUNT**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50131115001	Gray Water Out (Lab Filtered)	EPA 1631E	WJW	1
50131115002	Gray Water Inf (Lab Filtered)	EPA 1631E	WJW	1
50131115003	Gray Water Out (Lab Filtered)	EPA 1631E	WJW	1
50131115004	Gray Water Inf (Lab Filtered)	EPA 1631E	WJW	1
50131115005	Filtration Blank Control	EPA 1631E	WJW	1



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# **ANALYTICAL RESULTS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Sample: Gray Water Out (Lab Lab ID: 50131115001 Collected: 10/13/15 10:45 Received: 10/13/15 14:20 Matrix: Water

Filtered)

Date: 11/12/2015 12:34 PM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

**1631E Mercury, Low Level** Analytical Method: EPA 1631E Preparation Method: EPA 1631E

Mercury 3.61 ng/L 0.51 1 10/29/15 16:20 10/30/15 09:53 7439-97-6



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# **ANALYTICAL RESULTS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Sample: Gray Water Inf (Lab Lab ID: 50131115002 Collected: 10/13/15 10:55 Received: 10/13/15 14:20 Matrix: Water

Filtered)

Date: 11/12/2015 12:34 PM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

**1631E Mercury, Low Level**Analytical Method: EPA 1631E Preparation Method: EPA 1631E

Mercury **0.694** ng/L 0.51 1 10/29/15 16:20 10/30/15 11:23 7439-97-6



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# **ANALYTICAL RESULTS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Sample: Gray Water Out (Lab Lab ID: 50131115003 Collected: 10/13/15 10:45 Received: 10/15/15 14:15 Matrix: Water

Filtered)

Date: 11/12/2015 12:34 PM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

**1631E Mercury, Low Level** Analytical Method: EPA 1631E Preparation Method: EPA 1631E

Mercury 0.938 ng/L 0.51 1 10/29/15 16:20 10/30/15 10:19 7439-97-6



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# **ANALYTICAL RESULTS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Sample: Gray Water Inf (Lab Lab ID: 50131115004 Collected: 10/13/15 10:50 Received: 10/15/15 14:15 Matrix: Water

Filtered)

Date: 11/12/2015 12:34 PM

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

**1631E Mercury, Low Level**Analytical Method: EPA 1631E Preparation Method: EPA 1631E

Mercury **0.694** ng/L 0.51 1 10/29/15 16:20 10/30/15 11:15 7439-97-6



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# **ANALYTICAL RESULTS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Date: 11/12/2015 12:34 PM

Lab ID: 50131115005 Sample: Filtration Blank Control Collected: 10/29/15 08:00 Received: 10/29/15 08:00 Matrix: Water DF CAS No. **Parameters** Results Units Report Limit Prepared Analyzed Qual 1631E Mercury, Low Level Analytical Method: EPA 1631E Preparation Method: EPA 1631E 0.541 0.51 Mercury ng/L 10/29/15 16:20 10/30/15 09:22 7439-97-6



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### **QUALITY CONTROL DATA**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

 QC Batch:
 CVFS/1164
 Analysis Method:
 EPA 1631E

 QC Batch Method:
 EPA 1631E
 Analysis Description:
 1631E Mercury

 Associated Lab Samples:
 50131115001, 50131115002, 50131115003, 50131115004, 50131115005

METHOD BLANK: 1413345 Matrix: Water

Associated Lab Samples: 50131115001, 50131115002, 50131115003, 50131115004, 50131115005

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Mercury
 ng/L
 ND
 0.50
 10/30/15 09:45

METHOD BLANK: 1413346 Matrix: Water

Associated Lab Samples: 50131115001, 50131115002, 50131115003, 50131115004, 50131115005

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Mercury
 ng/L
 ND
 0.50
 10/30/15 10:42

METHOD BLANK: 1413347 Matrix: Water

Associated Lab Samples: 50131115001, 50131115002, 50131115003, 50131115004, 50131115005

Blank

Reporting

ParameterUnitsResultLimitAnalyzedQualifiersMercuryng/LND0.5010/30/15 11:32

LABORATORY CONTROL SAMPLE: 1413348

Date: 11/12/2015 12:34 PM

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Mercury ng/L 5 5.35 107 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1413349 1413350

MSD MS 50131115001 Spike Spike MS MSD MS MSD % Rec Max Parameter % Rec RPD Units Result Conc. Conc. Result Result % Rec Limits **RPD** Qual

Mercury ng/L 3.61 5 5 9.03 9.03 108 108 71-125 0 24

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1413367 1413368

MS MSD 50131005001 MS MS Spike Spike MSD MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual 71-125 Mercury ng/L ND 2.5 2.5 2.57 2.58 94 94 0 24

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

### **QUALIFIERS**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 11/12/2015 12:34 PM



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)228-3100

# **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Gray Water LL Hg Study

Pace Project No.: 50131115

Date: 11/12/2015 12:34 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50131115001	Gray Water Out (Lab Filtered)	EPA 1631E	CVFS/1164	EPA 1631E	CVFS/1165
50131115002	Gray Water Inf (Lab Filtered)	EPA 1631E	CVFS/1164	EPA 1631E	CVFS/1165
50131115003	Gray Water Out (Lab Filtered)	EPA 1631E	CVFS/1164	EPA 1631E	CVFS/1165
50131115004	Gray Water Inf (Lab Filtered)	EPA 1631E	CVFS/1164	EPA 1631E	CVFS/1165
50131115005	Filtration Blank Control	EPA 1631E	CVFS/1164	EPA 1631E	CVFS/1165

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Tracking #:	. نـ		بند	Date/Time 5036A kits
Custody Sezi on Cooler/Box Present:  yes	no Seals i	ntact:  yes	rio	placed in freezer
Packing Material: Bubble Wrap Bubble	Bags None	]Other		
Thermometer 12/456 ABCDEF	Type of Ice: Wet	Blue Mone	Samples on ice,	cooling process has begun.
Cooler Temperature 25.6	ice Visible in San	ple Containers:	yes no	
(Corrected, if applicable)		Comments:	Date and Inf	dals of person examining
Temp should be above freezing to 6°C		1		
Chain of Custody Present:		2		
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Sampler Name & Signature on COC:	· Dyes Eno DNA			
Short Hold Time Analysis (<72hr):	□Yes ZÑo □N/A			
Rush Turn Around Time Requested:	DYes □No □N/A	7.		
Containers Intact:	Tyes ONo ONA	8.		
Sample Labels match COC:				
-Includes date/time/ID/Analysis All containers needing acid/base pres. have been checked?	□Yes □No ŒÑA	9. (Circle) HNO3	H2SO4	NaOH NaOH/ZnAc
exceptions: VCA, coliform, TCC, O&G				
All containers needing preservation are found to be in correcommendation (<2, >9, >12) unless otherwise noted.	mpliance with EPA	l		
Residual Chlorine Check (SVOC 625 Pest/PCB 6		10. Present	Absent	•
Headspace in VOA Vials (>6mm):	□Yes □No ENA	11		
Headspace TCLP Volatiles	□Yes □No	12		
Headspace Wisconsin Sulfide / Acidity	☐Yes ☐No	13		
Trip Blank Present:	☐Yes ☐No ☑N/A	14		•
Trip Blank Custody Seals Present	□Yes □No ØN/			
group of Managar Review				
Samples Arrived within Hold Time:	MYes DNo DNI	15.		
Sufficient Volume:	Yes One Cini	16.		
Correct Containers Used:	TYES DNO DNA		Field Data Re	nuired? Y / N
Client Notification/ Resolution:	To Mar		- 10)29	dare and
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Project Manager Review:	'KIU'			

Form F-IN-Q-290-rev.07, 11May2015

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ampler Name & Signature on COC:	Yes	□No	DNIA	5.					<u> </u>
hort Hold Time Analysis (<72hr):	□Yes	□No	LERVA	6					
ush Turn Around Time Requested:	□Yes	□No	ZNA	7					
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sample Labels match COC:	THY 68	□No	□N⁄A	9.					•
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Il containers needing acid/base pres. have been checked?	□Yes	□No	DIMA	10	(Chiela) HNC	)3 H2	SO4	NaOH	MACHIZIMO
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leadspace in VOA Vials ( >6mm):	∐Yes		BANA	13					
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rrip Blank Present. Trip Blank Custody Seals Present	□Yes		MINIA		•				
Project Wahager Review									
Samples Arrived within Hold Time:	MYea.	□No	□w/	15.			<u>_</u>		
Sumples Arrived with the time. Sufficient Volume:	∐Yes		□N//	16.				<del></del>	
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Form F-IN-Q-290-rev.09, 13Oct2015

Sample Container Count

20131116

COC PAGE of

COCID®

CLIENT:

Project # 50129843

-	Container Codes		1					
H690	DG9H 40mL HCL amber voa vial	AGOU 100m	100mL unprese	IL unpreserved amber glass	BP1N	BP1N 1 liter HNO3 plastic	DG9P	DG9P 40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	er glass	BP1S	BP1S 1 liter H2SO4 plastic	0698	DG9S 40mL H2SO4 amber vial
WGFU		AG1S 1	1 FF	H2SO4 amber glass	BP1U	BP1U 1 liter unpreserved plastic	DG9T	DG9T 40mL Na Thio amber vial
2	R terra core kit	AG1T	<u>=</u>	Na Thiosulfate amber glass	BP1Z	BP1Z 1 liter NaOH, Zn, Ac	DCBN	DG9U 40mL unpreserved amber vial
RP2N	RP2N 500ml HNO3 plastic	AGZN	500mL HNO3 a	nL HNO3 amber glass	BP2A	BP2A 500mL NaOH, Asc Acid plastic	SPST	SP5T 120ml. Coliform Na Thiosulfate
BP2U	RP2U 500mL unpreserved plastic	AG2S 500n	500mL H2SO4	nt. H2SO4 amber glass	BP20	BP20 500ml. NaOH plastic	JGFU	JGFU 4oz unpreserved amber wide
RPZS	PP2S 500ml H2SO4 plastic	AGZU	500mL unprese	nt unpreserved amber glass	BP2Z	BP2Z 500mL NaOH, Zn Ac	2	U Summa Can
RDSM	BD3N 250ml HNO3 plastic	AG3U 250n	250mL unpress	nt unpreserved amber glass	AF	AF Air Filter	VG9H	VG9H 40mL HCL clear vial
HP3[1	RP311 250ml unpreserved plastic	BGIH	1 liter HCL clear glass	ır glass	ВРЗС	BP3C 250mL NaOH plastic	VGST	VG9T 40mL Na Thio. clear vial
RESE	250ml H2SO4 plastic	BG1S	1 liter H2SO4 dear glass	lear glass	BP3Z	BP3Z 250mL NaOH, Zn Ac plastic	VG9U	VG9U 40mL unpreserved clear vial
AG3S	AG3S 250ml H2SO4 glass amber	BG1T	1 liter Na Thios	BG1T 1 liter Na Thiosulfate clear glass	၁	C Air Cassettes	VSG	VSG Headspace septa vial & HCL.
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	ved glass	DG9B	DG9B 40mL Na Bisuifate amber vial	WGFX	WGFX 4oz wide jar wifnexane wipe
BP1U	BP1U 1 liter unpreserved plastic	BP1A	BP1A 1 liter NaOH, Asc Acid plastic	sç Acid plastic	DG9M	DG9M 40mL MeOH clear vial	ZPLC	ZPLC Ziploc Bag

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# Sample Container Count

8 511151as

CLIENT: JRM EAU

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화	AG10	WGFU	AGOU	R 4/	6 BP2N	BP2U	BP2S	DG9H AG1U WGFU AG0U R 4/6 BPZN BPZU BPZS BP3N BP3U BP3S AG3S AG1H BP3C BP1U SP5T AG2U	DE 1	BP3S A	(G3S /	MG1H B	- B3C	210 120 120 120 120 120 120 120 120 120	PST A	32U	L	<u></u>		대 2 마 3 마사12	된
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	ich con con	ACOI 1	Onni unnes	ACOLI 100mi unmeserved amber glass	BPIN	BP1N 1 liter HNO3 plastic	) 20 20 20	Rest for annel war	
5	DOSH 4UML NOL AMIDEI VOR VIRI				S POR	4 Her H2SO4 plastic	0098	DG9S 40mL H2SO4 amber vial	
₩	AG1U 1liter unpreserved amber glass	AGIH	AG1H 1 Itter HCL amper grass	nder grass	2 3		Ę	COST Anni Na Thin amber vial	
1	14/2011 And place enil lar	AG1S 1	=	ter H2SO4 amber glass	BP10	BP10 1 litter unpreserved plasuc	3		_
ş	e deal sell jai	150,	=	tor No Thire offste amber glass	BP1Z	BP1Z 1 liter NaOH, Zn, Ac	DG9C	DG9U 40mL unpreserved amber vial	
Ę,	R terra core kit	2	I IIICH IVA I III	Saulate attended grand	Accre	DODA COOM! NOOH Acc Acid plastic	SPST	SPST 120ml Coliform Na Thiosulfate	
g	BP2N 500mL HNO3 plastic	AG2N :	SOOML HNOS	500mL HNO3 amber glass	5	SUUIIL NAON, ASCANA MASAC	200	Oct 1 402 immeened amber wide	
Š	Committee of the section of the sect	AG2S	500mL H2SO	500mL H2SO4 amber glass	BP20	BP20 500mL NaOH plastic	ב פר	chir iorilla con too continuo 704	_
ğ	Ollic diplessived plant	11000	Show Impa	ACCOLL ENTINE LINEAGONAL SAMPLE Glass	BP2Z	BP2Z 500mL NaOH, Zn Ac	ח	U Summa Can	
8	BP2S  500mL H2SO4 plastic	777	יייייייייייייייייייייייייייייייייייייי		AE	Ac Air Eller	VGBH	VG9H 40ml. HCt. dear vial	
25	RPAN 250ml HNO3 plastic	AG3U	250mL unpre	AG3U 250mL unpreserved amoer glass	2	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		And the Thirt about the	_
	A STATE OF THE PERSON OF THE P	RG1H 1	1 Iffer HCL clear class	ear olass	- BP3C	BP3C 250ml. NaOH plastic	3	VGSI 4UML Na 1 no. Gear via	_
Ş	PH30 Spour migreserved brasing	3		John slose	BP37	RP37 250ml NaOH, Zn Ac plastic	<b>V69</b>	VG9U 40mL unpreserved clear vial	_
8	BP3S   250ml. H2SO4 plastic	- 2 2 2 2		HEL FLOOT GEOR SIRES			787	VSC Headeners sents visi & HCL	_
٢	ACSC 250ml H2SO4 diass amber	BG1T	1 liter Na This	Iter Na Thiosulfate clear glass	יט	C Air Cassenes	2	וופמתפתמה מהשת אות מווים	Т
3	CHILL I INCOME STATE STATE OF THE PARTY OF T	1		Section of the section of	HEST	DC9R 40ml Na Bisulfate amber vial	<b>¥GFX</b>	WGFX   4oz wide jar whexane wipe	_
AG1S 1 1	1 liter H2SO4 amber glass	1 0 1 1	-1	וופן חווחופאפו אפת לומספ				7DI C. Zinioc Raci	_
Ē	DOWN 4 liter unmasarved plastic	BP1A  1		iter NaOH, Asc Acid plastic	MASS 2	DOWN AUTH IMBOTI GEST VIST	3	Captor and	1
-   -  -	וופו חווף פפן יכר ביינים								

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